

TECHNICAL SPECIFICATIONS

ISOVISTA® Unifomat System

TECHNICAL FEATURES VALUES UNIT OF ACCORDING TO UNI EN 13163		TECHNICAL VALUES	UNIT OF MEASURE
GENERAL CHARACTERISTICS		5 cm	8//20 cm
Lenght		119	119
Width		53,5	53,5
Thickness		5	8/10/12/14/16/18/20
Surface developed by 1 panel		0,540	0,540
Surface developed by 1 linear meter of corner panels		0,468	0,468
Surface developed by 1 linear meter of corner panels		0,90	0,90
Orthogonality		± 0,2/100	± 0,2/100
Flatness		± 0,5	± 0,5
Dimensional stability under normal laboratory conditions		± 0,2	± 0,2
Declared thermal conductivity at 10°C of the component		0,033	0,034
Thermal resistance of the panel (slip+EPS insulation)			
5 cm		1,108	
8 cm			1,969
10 cm			2,557
12 cm			3,145
14 cm			3,733
16 cm			4,311
18 cm			4,896
20 cm			5,519
Thermal transmittance (slip+EPS insulation)			
5 cm		0,90	
8 cm			0,51
10 cm			0,39
12 cm			0,32
14 cm			0,27
16 cm			0,23
18 cm			0,20
20 cm			0,18
Resistance to bending		≥ 250	≥ 170
Reaction to fire (complete panel)		B-S1-D0	B-S1-D0

SPECIFIC CHARACTERISTICS

Compressive stress at 10 % strain	≥ 200	≥ 120	kPa
Factor of resistance to water vapor diffusion	40-100	30-70	Q
Water absorption for a long period of immersion	≤ 120	≤ 2	%
Water absorption by partial immersion	≤ 0,5	≤ 0,5	Kg/m ²
Water vapor permeability	0,007 - 0,018	0,010-0,024	mg/(Pa·h·m)
Specific heat capacity	1260	1260	J/(Kg·K)
Apparent density with grouting	18 ± 0,5	19 ± 2	Kg/panel
Maximum temperature of use	75	75	°C

SPECIAL EXPERIMENTS CARRIED OUT

Shear bond slip/panel	526	526	Kg/panel
Tensile strenght to fixing panel/standard wall	524	524	Kg/panel
Cycles of thermal stress (8h at -20°C- 8h at 30°C/50 % moisture - 8h at 80°C/90% moisture)			%
Weight changes	4	4	%
Variations in shape	1	1	